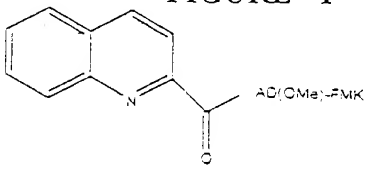
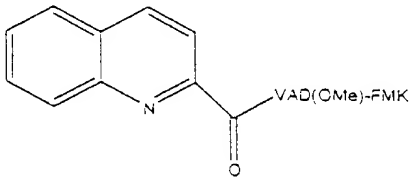
FIGURE 1



Quin-AD(OMe)-FMK M.Wt:389

FIGURE 1A



Quin-VAD(OMe)-FMK
M.Wt:488; C24H19N4O6F

FIGURE 2

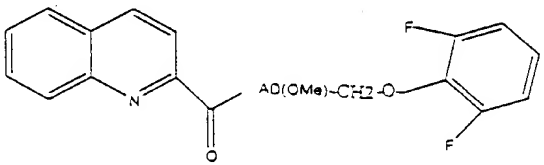
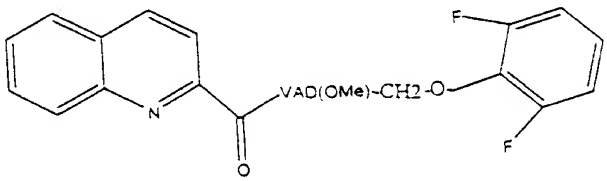


FIGURE 2A



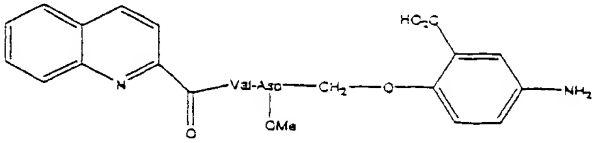


FIGURE 3

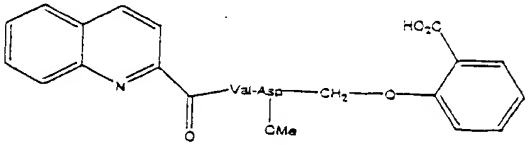


FIGURE 4

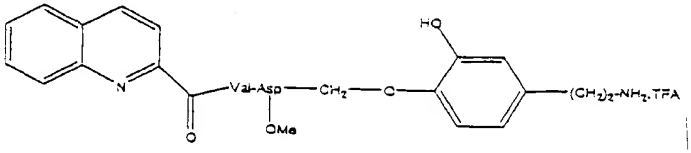


FIGURE 5

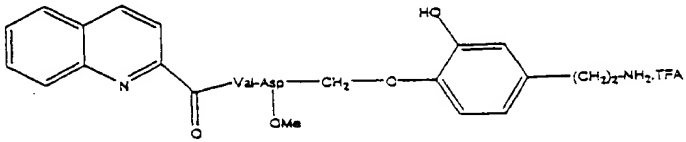


FIGURE 6

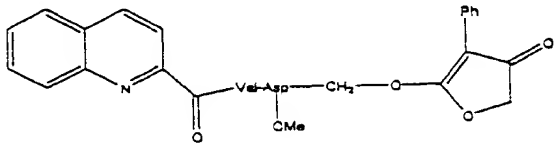


FIGURE 7

FIGURE 8

Caspase 9

inh conc	log of con	% inhib
0 005uM	-2.301	0
0 01uM	-2	0
025uM	-1.602	0
05uM	-1 301	0
1uM	-1	0
0 5uM	-0.301	0
1uM	0	16.2
2.5uM	0.3979	21.8
5uM	0.6989	47.4
10uM	1	62
25uM	1.398	82.4
50uM	1.6989	92.6

Q-(C=O)-VD(OMe)-CH_2-ASA

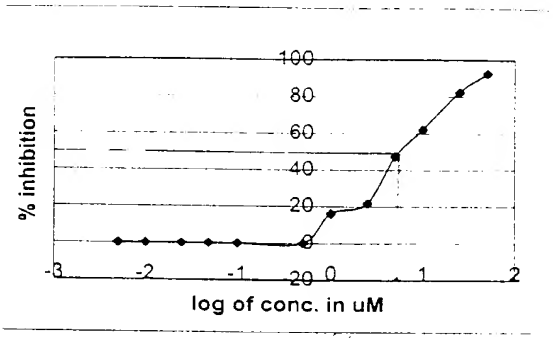


FIGURE 9

Caspase 8

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	4.7
1uM	0	5.5
2.5uM	0.3979	21.1
5uM	0.6989	45.5
10uM	1	73.6
25uM	1.398	96.8
50uM	1.6989	99.8

Q-(C=O)-VD(OMe)-CH_2-ASA

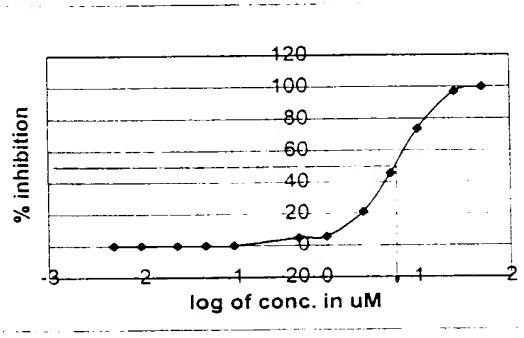


FIGURE 10

Caspase 1

inh conc	log of con	% inhib
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	18.2
1uM	0	34.8
2.5uM	0.3979	69.7
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

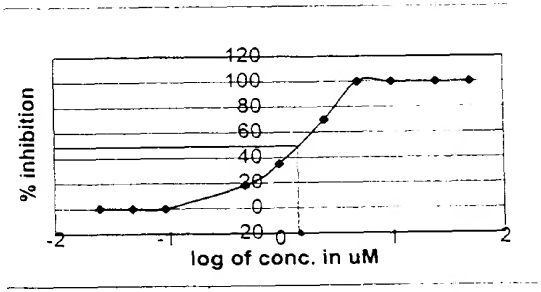


FIGURE 11

Caspase 3

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	2.3
.05uM	-1.301	9.1
.1uM	-1	6.4
0.5uM	-0.301	29.3
1uM	0	45
2.5uM	0.3979	74.8
5uM	0.6989	91.5
10uM	1	98.2
25uM	1.398	100
50uM	1.6989	100

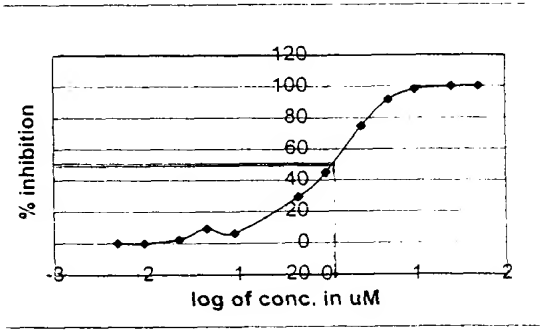


FIGURE 12

Caspase 1

inh conc	log of con	% inhib
.0025uM	-2.602	3.14
.005uM	-2.301	2.6
.01uM	-2	1.4
.025uM	-1.602	10.3
.05uM	-1.301	8.3
.1uM	-1	23.7
0.5uM	-0.301	50.9
1uM	0	66.29
2.5uM	0.3979	90.3
5uM	0.6989	96.3
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Indole-(C=O)-VD(OMe)-CH_2-OPh

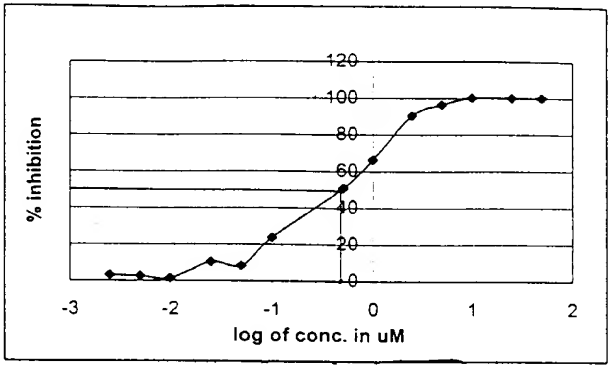


FIGURE 13

Caspase 1

inh conc	log of con	% inhib
.0025uM	-2.602	16.3
.005uM	-2.301	19.4
.01uM	-2	22.6
.025uM	-1.602	42.86
.1uM	-1	44
0.5uM	-0.301	74
1uM	0	87.4
2.5uM	0.3979	97.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Melatonin-VD(OMe)-CH_2-OPh

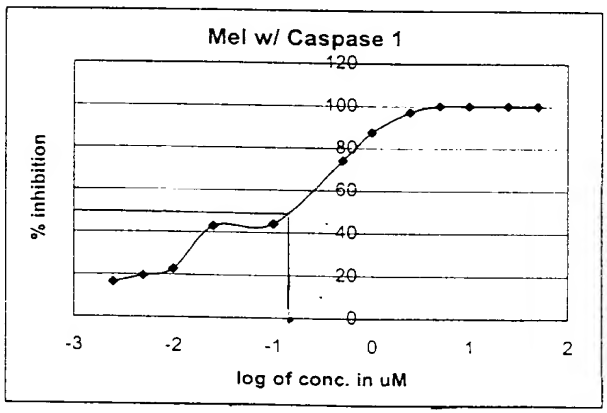


FIGURE 14

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	7.3
.1uM	-1	26.8
0.5uM	-0.301	93.4
1uM	0	99.6
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

Bzl-Melatonin-VD(OMe)-CH_2-OPh

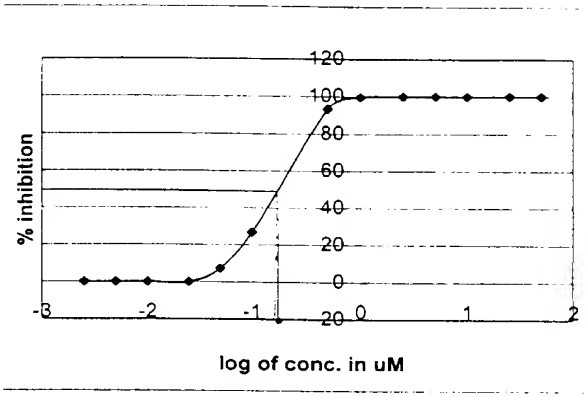


FIGURE 15

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	38.4
0.005uM	-2.301	25.7
0.01uM	-2	29.6
.025uM	-1.602	23
.05uM	-1.301	44.3
0.5uM	-0.301	57.2
1uM	0	91.4
2.5uM	0.3979	95
5uM	0.6989	96.9

HydroxyTryptophan-VD(OMe)-CH_2-OPh

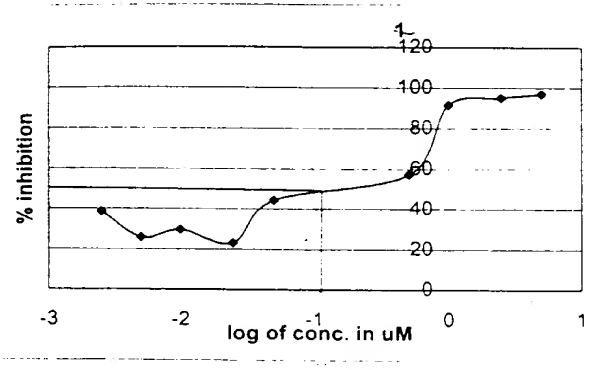


FIGURE 16

Caspase 1

inh conc	log of con	% inhib
0 0025uM	-2.602	0
0 005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	20.7
0.5uM	-0.301	42.7
1uM	0	81.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

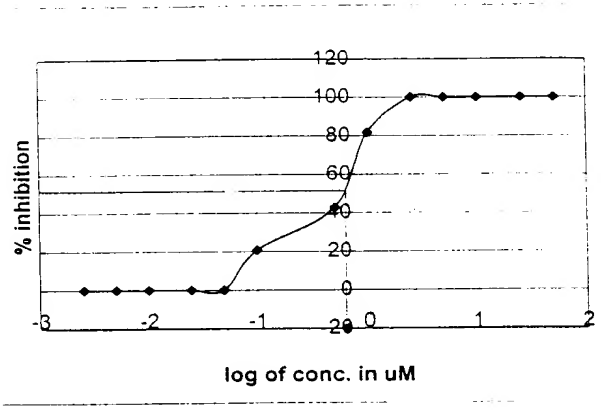


FIGURE 17A

Caspase 9

inh conc	log of con	% inhib
025uM	-1.602	33.6
05uM	-1.301	43.9
1uM	-1	58.7
0.5uM	-0.301	90.7
1uM	0	94.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Q-(C=O)-L-D-(OMe)-CH_2-F (the FMK)

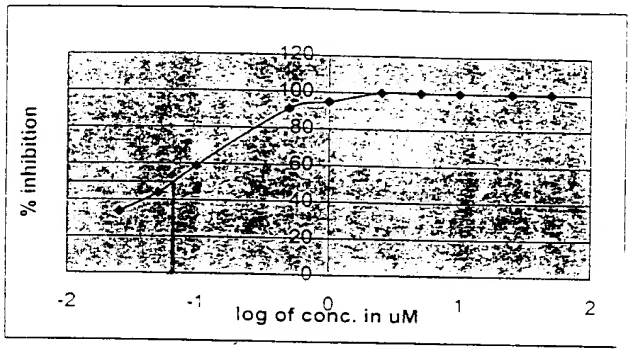


FIGURE 17B

Caspase 9

inh conc	log of con	% inhib
025uM	-1.602	25.7
05uM	-1.301	37.3
1uM	-1	58.9
0.5uM	-0.301	88.9
1uM	0	94.9
2.5uM	0.3979	96.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Q-(C=O)-L-D-(OMe)-CH_2-F (the FMK)

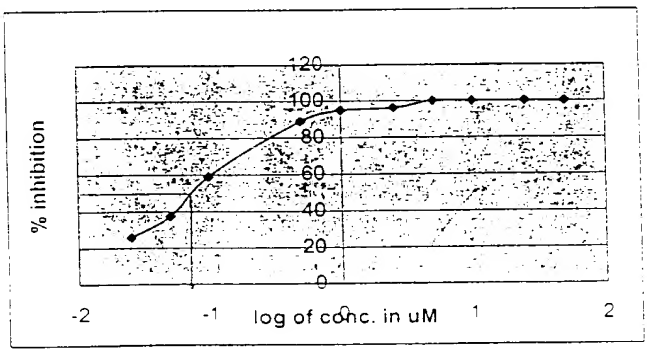


FIGURE 18A

Caspase 9

n conc	log of con	% innib
025uM	-1.602	47.3
05uM	-1.301	64.4
1uM	-1	81.2
0.5uM	-0.301	97.8
1uM	0	99.5
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Q-(C=O)-V-D-(OCH$_3$)-CH$_2$-F (the FMK)

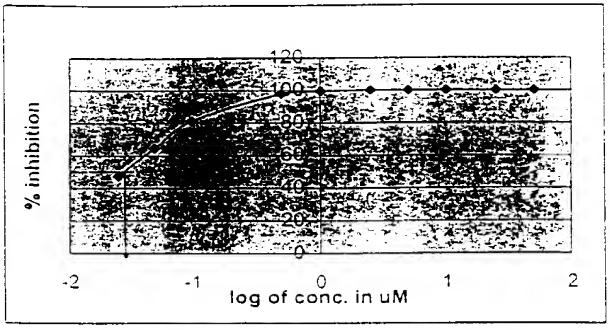


FIGURE 18B

Caspase 9

nn conc	log of con	% innib
025uM	-1.602	62.2
05uM	-1.301	76.3
1uM	-1	81.3
0.5uM	-0.301	99.1
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

Q-(C=O)-V-D-(OCH$_3$)-CH$_2$-F (the FMK)

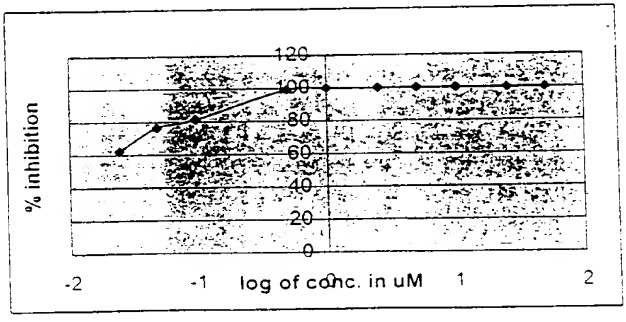


FIGURE 19

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	3.2
0.01uM	-2	0
.025uM	-1.602	1.1
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	15.3
1uM	0	33.7
2.5uM	0.3979	72.1
5uM	0.6989	97.4
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

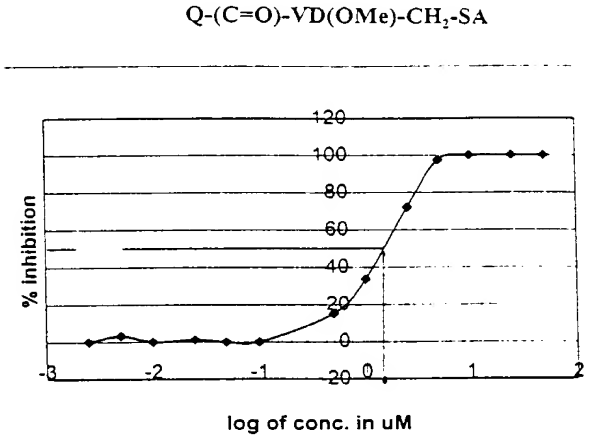


FIGURE 20

Caspase 3

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0.57
.05uM	-1.301	2.8
.1uM	-1	18.3
0.5uM	-0.301	32.4
1uM	0	54.7
2.5uM	0.3979	87.8
5uM	0.6989	97.6
10uM	1	99.7
25uM	1.398	100
50uM	1.6989	100

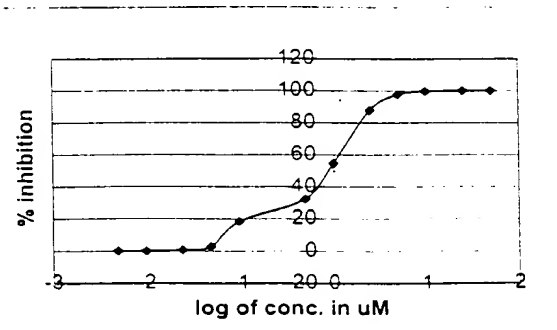


FIGURE 21

Caspase 1

inh conc	log of con	% inhib
025uM	-1 602	19
05uM	-1 301	22
1uM	-1	19
0 5uM	-0 301	46 7
1uM	0	69 5
2 5uM	0 3979	92 7
5uM	0 6989	96 5
10uM	1	87 3

Q-(C=O)-L-D-CH_2-OPh

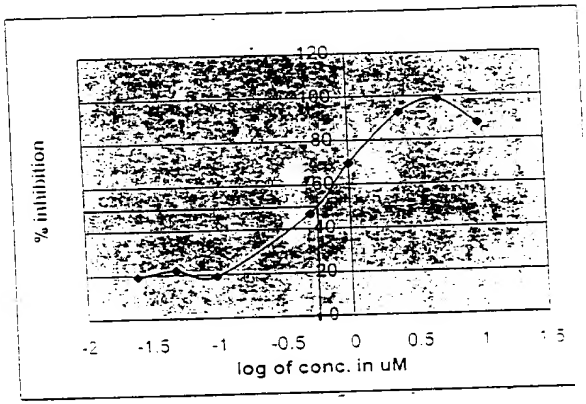


FIGURE 22

Caspase 1

inh conc	log of con	% inhib
025uM	-1 602	39 8
05uM	-1 301	55 98
1uM	-1	67 2
0 5uM	-0 301	95 8
1uM	0	98 5
2 5uM	0 3979	100
5uM	0 6989	100
10uM	1	100

Q-(C=O)-V-D-CH_2-OPh

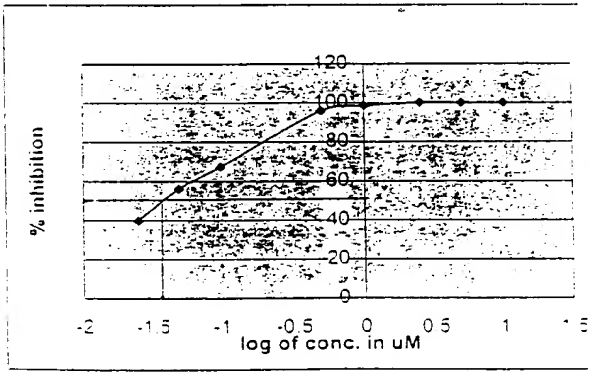


FIGURE 25A

Non esterase treated Inhibitor D with Caspase 3

$Q\text{-}(C{=}O)\text{-}L\text{-}D\text{-}(OMe)\text{-}CH_2\text{-}F$

inh conc	log of con	% inhib
0.25uM	-1.602	37.8
0.5uM	-1.301	52
1uM	-1	73
0.5uM	-0.301	100
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

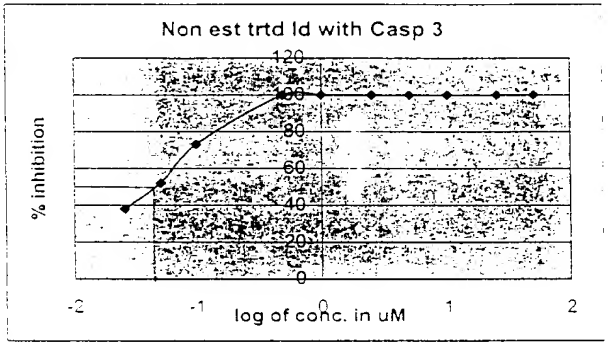


FIGURE 25B

Esterase treated Inhibitor D with Caspase 3

$Q\text{-}(C{=}O)\text{-}L\text{-}D\text{-}(OMe)\text{-}CH_2\text{-}F$

inh conc	log of con	% inhib
0.25uM	-1.602	38.2
0.5uM	-1.301	68.9
1uM	-1	80.7
0.5uM	-0.301	97.6
1uM	0	96.6
2.5uM	0.3979	96.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

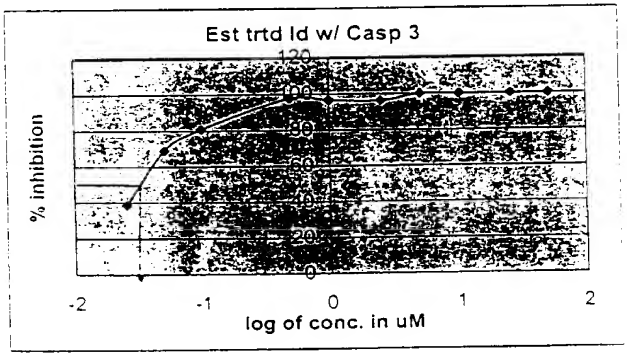


FIGURE 23

Esterase treated Inhibitor C with Caspase 1

Q-(C=O)-V-D-(OMe)-CH_2-F

nh conc	log of con	% inhib
025uM	-1.602	40.1
05uM	-1.301	54.9
1uM	-1	73.2
0.5uM	-0.301	81.7
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

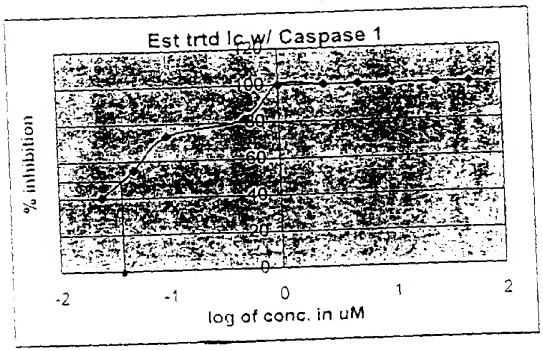


FIGURE 24

Esterase treated Inhibitor D with Casp 1

Q-(C=O)-L-D-(OMe)-CH_2-F

nh conc	log of con	% inhib
025uM	-1.602	0
05uM	-1.301	33.8
1uM	-1	63.4
0.5uM	-0.301	85.2
2.5uM	0.3979	85.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

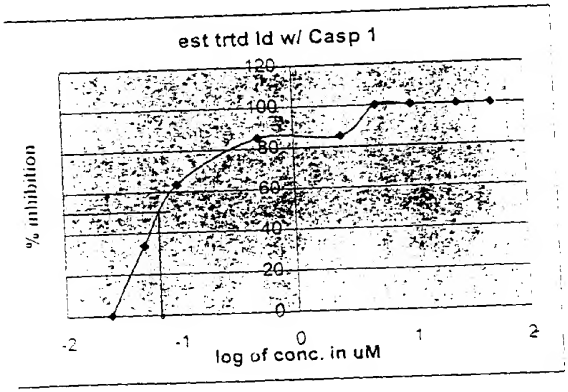


FIGURE 26

Q-LD-OPh

0.05uM	-1.301	5.5
0.1uM	-1	11
0.5uM	-0.301	46
1uM	0	68
2.5uM	0.3979	86.8
5uM	0.6989	94.5
10uM	1	100
25uM	1.3979	100
50uM	1.6989	100

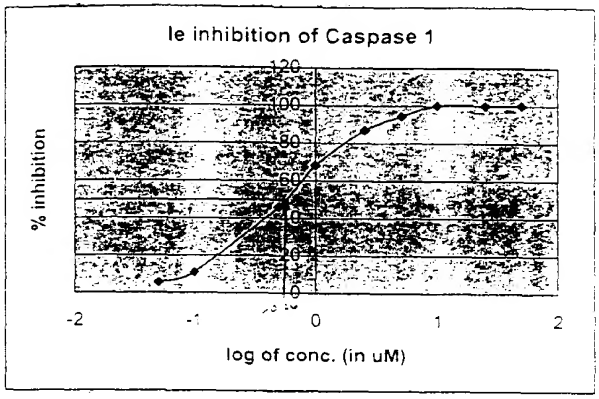
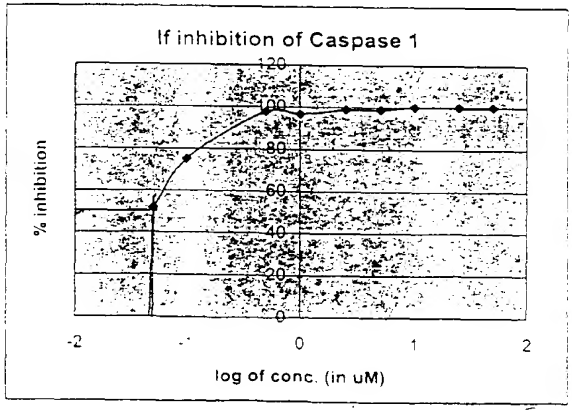


FIGURE 27

Q-VD-OPh

0.05uM	-1.301	51.6
0.1uM	-1	75
0.5uM	-0.301	97.8
1uM	0	96.7
2.5uM	0.3979	98.9
5uM	0.6989	98.9
10uM	1	100
25uM	1.3979	100
50uM	1.6989	100



Caspase 3 w/ IE

Q-(C=O)-LD-CH_2-O-Ph

inh conc	log of con	% inhib
.025uM	-1.602	31.85
.05uM	-1.301	47.1
.1uM	-1	59.2
0.5uM	-0.301	96.2
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.699	100

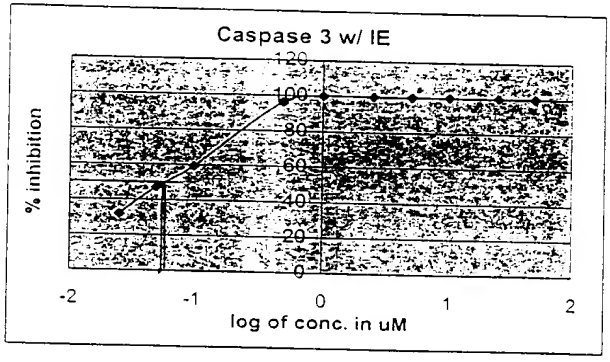
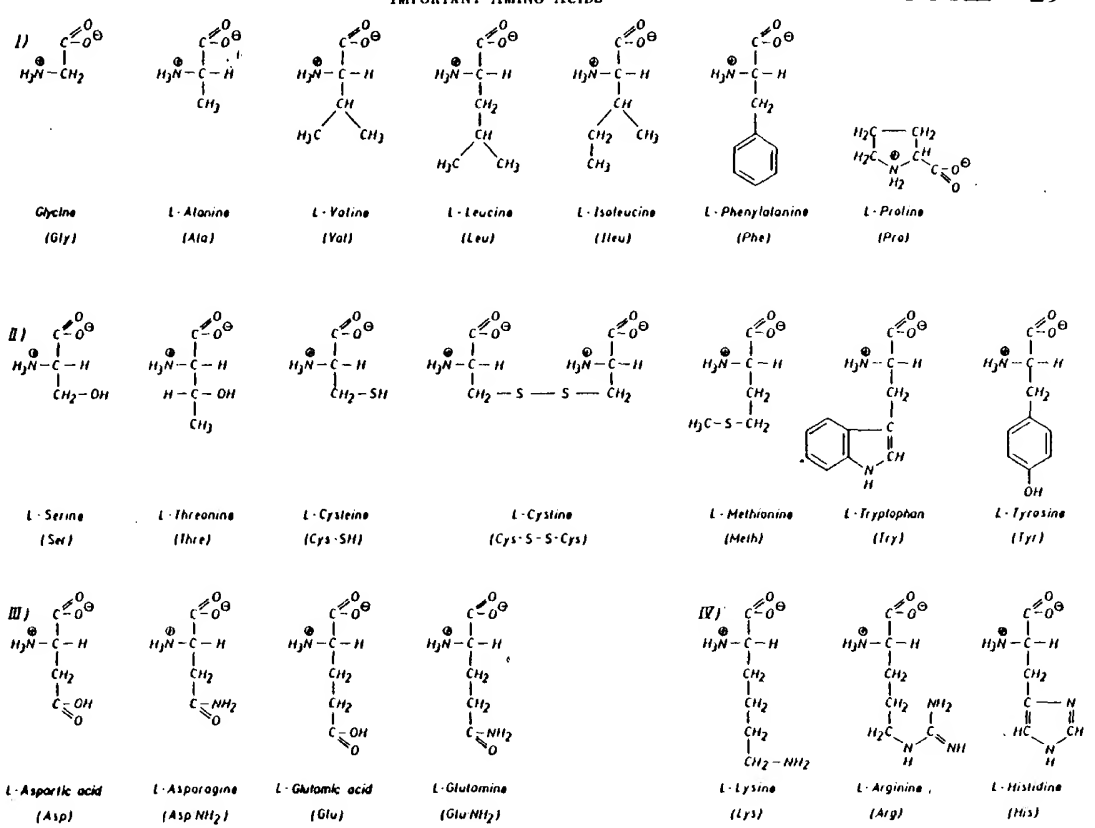


FIGURE 28

FIGURE 29


Important Amino Acids
I)
Glycine (Gly)
L-Alanine (Ala)
L-Valine (Val)
L-Leucine (Leu)
L-Isoleucine (Ileu)
L-Phenylalanine (Phe)
L-Proline (Pro)
II)
L-Serine (Ser)
L-Threonine (Thre)
L-Cysteine (Cys·SH)
L-Cystine (Cys·S-S·Cys)
L-Methionine (Meth)
L-Tryptophan (Try)
L-Tyrosine (Tyr)
III)
L-Aspartic acid (Asp)
L-Asparagine (Asp NH2)
L-Glutamic acid (Glu)
L-Glutamine (Glu NH2)
IV)
L-Lysine (Lys)
L-Arginine (Arg)
L-Histidine (His)